

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT (PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 703382 PCT	<b>FOR FURTHER ACTION</b>		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/CA2004/001623	International filing date ( <i>day/month/year</i> ) 15 September 2004 (15-09-2004)	(Earliest) Priority date ( <i>day/month/year</i> ) 15 September 2003 (15-09-2003)	
Applicant TESMA INTERNATIONAL INC. ET AL			
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.			
<p>This international search report consists of a total of <u>3</u> sheets.</p> <p style="padding-left: 40px;"><input checked="" type="checkbox"/> It is also accompanied by a copy of each prior art document cited in this report.</p> <p><b>1. Basis of the report</b></p> <p style="padding-left: 20px;">a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</p> <p style="padding-left: 60px;"><input type="checkbox"/> the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).</p> <p style="padding-left: 20px;">b. <input type="checkbox"/> With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.</p> <p><b>2.</b> <input type="checkbox"/> Certain claims were found unsearchable (See Box II).</p> <p><b>3.</b> <input type="checkbox"/> Unity of invention is lacking (See Box III).</p> <p><b>4. With regard to the title.</b></p> <p style="padding-left: 40px;"><input checked="" type="checkbox"/> the text is approved as submitted by the applicant.</p> <p style="padding-left: 40px;"><input type="checkbox"/> the text has been established by this Authority to read as follows :</p> <p><b>5. With regard to the abstract.</b></p> <p style="padding-left: 40px;"><input checked="" type="checkbox"/> the text is approved as submitted by the applicant.</p> <p style="padding-left: 40px;"><input type="checkbox"/> the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.</p> <p><b>6. With regard to the drawings,</b></p> <p style="padding-left: 20px;">a. The figure of the drawings to be published with the abstract is Figure No. 1</p> <p style="padding-left: 60px;"><input checked="" type="checkbox"/> as suggested by the applicant.</p> <p style="padding-left: 60px;"><input type="checkbox"/> As selected by this authority, because the applicant failed to suggest a figure.</p> <p style="padding-left: 60px;"><input type="checkbox"/> As selected by this Authority, because this figure better characterizes the invention.</p> <p style="padding-left: 20px;">b. <input type="checkbox"/> None of the figures is to be published with the abstract.</p>			

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/001623

A. CLASSIFICATION OF SUBJECT MATTER: F 16H 48/04; X-ref: B21J 5/02; B21K 1/26

B. FIELDS SEARCHED: F16H 48/04; F16H 48/12; F16H 48/02; B21J 5/02; B21K 1/26; US 74/650

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched:  
Kent's Mechanical Engineers' Handbook, 12th edition, 1969, chapter 20.

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used): Delphion, Techsource, esp@cenet, key words: differential, gear, die, forming, housing, ring gear, blank.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Kent's Mechanical Handbook, 12th edition, 1969, chapter 20. Plastic Working of Metals.	14 to 22
Y	CA 2,281,242 (BELL, D. et al.) 28 March 2000 (29-04-2000) (whole document)	1 to 22
Y	CA 1,291,866 (YOSHIMURA, K.) 12 November 1991 (12-11-1991) (fig. 14)	1 to 22

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international-type search,  
13 January 2005 (13-01-2005)Date of mailing of the international-type search report  
01 March 2005 (01-03-2005)

Name and mailing address of the ISA/CA  
 Commissioner of Patents  
 Canadian Patent Office - PCT  
 Ottawa/Gatineau K1A 0C9  
 Facsimile No. 1-819-953-9358

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
**PCT/CA2004/001623**

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
CA2281242	28-03-2000	AU747570 B2	16-05-2002
		AU4483399 A	30-03-2000
		CA2281242 A1	28-03-2000
		US5989143 A	23-11-1999
CA1291866	12-11-1991	CA1291866 C	12-11-1991
		CN85106696 A	10-04-1986
		JP1769729C C	30-06-1993
		JP1769730C C	30-06-1993
		JP61020642 A	29-01-1986
		KR9208551 B1	01-10-1992
		WO8600549 A1	30-01-1986